

International application No.

PCT/FI 02/00611

#### A. CLASSIFICATION OF SUBJECT MATTER

IPC7: D21C 11/12
According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7: D21C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

#### SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELE	VANI
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	US 4135968 A (GERRIT G. DEHAAS), 23 January 1979 (23.01.79), column 3, line 11 - line 35, figure 1, abstract	1,5-12
Y		2
	<del></del>	
х	US 5174860 A (ADRIAAN R.P. VAN HEININGEN ET AL), 29 December 1992 (29.12.92), column 3, line 10 - line 38; column 3, line 54 - column 4, line 10	3-12
Y		2
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х	Further documents are listed in the continuation of Box	. <b>C.</b>	X See patent family annex.
*	Special categories of cited documents:	"T"	later document published after the international filing date or priority
"A"	document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention
″E″	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive
"L"			step when the document is taken alone
	cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance: the claimed invention cannot be
″O″	document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"P"	document published prior to the international filing date but later than	"&"	document member of the same patent family
	the priority date claimed	<u></u>	document member of the same partie family
Date	e of the actual completion of the international search	Date of	of mailing of the international search report
			19 410- 2002
9	October 2002		

Authorized officer

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Form PCT/ISA/210 (second sheet) (July 1998)

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Swedish Patent Office

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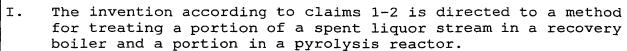
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Х	US 3607619 A (HOWARD V. HESS), 21 Sept 1971 (21.09.71), column 2, line 28 - line 75; column 3, line 27 - line 72, abstract	4,6-12
	<del></del>	
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	A/210 (continuation of second sheet) (July 1998)	

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Box 1	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Вох П	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
	ernational Searching Authority found multiple inventions in this international application, as follows:  extra sheet  -
	· ·
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.



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II. The invention according to claims 3-4 is directed to a method for treating the entire spent liquor stream in a pyrolysis reactor.

The two inventions share in common the features regarding pyrolysis of spent liquor obtaining coke of a solid state. However, such pyrolysis is already known from D1, D2 or D3. Except for this feature, there is no common or corresponding feature among the inventions which can be considered as a special technical feature within the meaning of PCT Rule 13.2, second sentence. Therefore, no technical relationship within the meaning of Rule 13 can be seen. Consequently, the inventions, a posteriori, do not satisfy the requirements of unity of invention.

Form PCT/ISA/210 (extra sheet) (July1998)

Information on patent family members

30/09/02

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PCT/FI 02/00611

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	4135968	A	23/01/79	US	4338158 A	06/07/82
US	5174860	Α	29/12/92	CA	1313577 A	16/02/93
US	3607619	A	21/09/71	AT BE CH DE FR GB JP NL SE US	300683 B 742202 A 526477 A 1959326 A 2024520 A 1267950 A 51022306 B 6917974 A 368812 B 3770574 A	15/06/72 25/05/70 15/08/72 11/06/70 28/08/70 22/03/72 08/07/76 02/06/70 22/07/74 06/11/73